Electronic Version
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Claims

[c1] 1. A method for remote booting a computer, comprising:
executing a basic input output system (BIOS) and determining whether to execute a remote boot procedure;
downloading and executing a loader program when the remote boot procedure is executed;
downloading a configuration file, wherein the configuration file comprising a size of an allocated memory and a file list;
allocating a memory block on the computer according to the size of the allocated memory and installing a file system in the memory block; and
downloading a file to the file system according to the file list.

[c2] 2. The method of claim 1, wherein after the step of downloading the file to the file system according to the file list, further comprising:
installing a virtual disk drive in the computer according to the file system and booting the computer via the virtual disk drive.

[c3] 3. The method of claim 1, wherein the file system comprises a boot sector, a file allocation table, a directory,

and the file.

[c4] 4. The method of claim 1, wherein the step of determining whether to execute a remote boot procedure depends on a setting of the BIOS.

[c5] 5. A computer suitable of remote boot, comprising:
a network boot device for downloading a loader program via a network, wherein the loader program downloads a configuration file having a size of an allocated memory and a file list, the loader program setups a memory block on the computer according to the size of the allocated memory and setups a file system in the memory block, and a file is downloaded into the file system according to the file list.

[c6] 6. The computer of claim 5, wherein the file is used to install a virtual disk drive in the computer, and the virtual disk drive boots the computer.

[c7] 7. The computer of claim 5, wherein the network boot device comprises a boot read only memory (Boot ROM) on a network card.

[c8] 8. The computer of claim 5, wherein the network boot device comprises a preboot execution environment (PXE) standard module.

[c9] 9. The computer of claim 5, wherein the network boot device comprises an stand alone system.

[c10] 10. The computer of claim 5, wherein the file system comprises a boot sector, a file allocation table, a directory, and the file.

[c11] 11. A server device for remote boot, comprising:
a server; and
a network boot device for downloading a loader program via a network, wherein the loader program downloads a configuration file having a size of an allocated memory and a file list, the loader program setups a memory block on the server device according to the size of the allocated memory and setups a file system in the memory block, and a file is downloaded into the file system according to the file list.

[c12] 12. The server device of claim 11, wherein the file is used to install a virtual disk drive in the server device and the virtual disk drive boots the server device.

[c13] 13. The server device of claim 11, wherein the server device comprises a rack mountable server.

[c14] 14. The server device of claim 11, wherein the server device comprises a blade server.

[c15] 15. The server device of claim 11, wherein the server device comprises a double-CPU server.

[c16] 16. The server device of claim 11, wherein the network boot device comprises a boot read only memory (Boot ROM) on a network card.

[c17] 17. The server device of claim 11, wherein the network boot device comprises a preboot execution environment (PXE) standard module.

[c18] 18. The server device of claim 11, wherein the network boot device comprises an stand alone system.

[c19] 19. The server device of claim 11, wherein the file system comprises a boot sector, a file allocation table, a directory, and the file.